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KO13155

510(k) Summary of Safety and Effectiveness Dade® Thromboplastin C Plus September 20, 2001

Dade Behring Inc. 13251 NW 9th Terrace Miami, FL 33182

Contact Person: Radames Riesgo at 305.480.7558 or by facsimile at 305.552.5288.

Trade or Proprietary Name:

Dade® Thromboplastin C Plus

Common or Usual Name:

Prothrombin time assay

Classification Name:

Prothrombin Time Test (21 CFR § 864.7750)

Registration Number:

Location

Registration Number

Manufacturer

Dade Behring Marburg GmbH

9610806

Emil-von-Behring Str. 76 D-35001 Marburg, Germany

Distributor

Dade Behring Inc.

2517506

Glasgow Site P.O. Box 6101

Newark, DE 19714-6101

The modified product is an *in vitro* diagnostic test for the determination of prothrombin time and prothrombin time-based assays. Dade® Thromboplastin C Plus is a lyophilized preparation of dried rabbit brain with calcium and stabilizers. The reagent initiates clotting via the extrinsic common pathway in a global screening test, the prothrombin time (PT). The obtained clotting time detects single or combined deficiencies of the extrinsic coagulation system indicative of hereditary and acquired coagulation disorders, is a sensitive monitoring test for oral anticoagulation therapy and an assay for specific coagulation factors.

Dade® Thromboplastin C Plus is substantially equivalent in intended use for fibrinogen determination to Multifibren™ U (K934326). Both the proposed product and the predicate device are intended to provide results of the fibrinogen concentration present in citrated human plasma.

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Comparative performance studies involving different photo-optical coagulation analyzers were conducted to evaluate the performance of both reagents for the determination of fibrinogen concentration in specimens.

The results of the performance studies are summarized in the tables below.

Summary of Method Comparison Studies between Dade® Thromboplastin C Plus and Multifibren™ U

Analyzers	Sample Number (n)	Coefficient of Correlation (r)	Regression Equation	
BCT TM /BCT TM	171	0.951	Y = 1.03X - 0.40	
BCSTM/BCTTM	165	0.935	Y = 1.09X - 0.59	
Sysmex® CA-1500/BCT	166	0.965	Y = 1.09X - 0.32	
Sysmex® CA-6000/BCT	103	0.943	Y = 1.08X - 0.65	
Sysmex® CA-500/BCT	176	0.975	Y = 1.12X - 0.41	

Summary of Precision Study Derived Fibrinogen Determination on Sysmex® Automated Coagulation Analyzer CA-1500

Assay	Control Level	n	Mean	Within Run %CV	Between Run %CV	Total %CV	Max. Error Criteria %CV
Derived Fibrinogen (Dade® Thromboplastin C Plus)	CPN	40	1.8	5.5	1.6	5.4	
	СРР	40	0.7	1.1	0.4	1.1	10
	NPP	40	2.9	4.6	1.7	4.6	
	PPP	40	4.6	4.7	1.1	4.5	

CPN: Control Plasma N CPP: Control Plasma P NPP: Normal plasma pool PPP: Pathological plasma pool

DEPART

DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Ms. Rebecca S. Ayash
Director, Regulatory Affairs and Compliance
Dade Behring Inc.
Glasgow Site, P.O. Box 6101
Newark, DE 19714-6101

JAN 1 8 2002

Re: k013155

Trade/Device Name: Dade® Thromboplastin C Plus

Regulation Number: 21 CFR 864.7750 Regulation Name: Prothrombin Time Test

Regulatory Class: Class II

Product Code: GJS

Dated: December 13, 2001 Received: December 14, 2001

Dear Ms. Ayash:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory Devices

Steven Butman

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

510(k) Number (if known):	K013155	*					
Device Name: Dade® Thromboplastin C Plus							
Indications for Use:							
Dried Rabbit Brain Thromboplastin determinations and prothrombin time		se in prothrombin time (PT)					
(PLEASE DO NOT WRITE BELOW TH	IS LINE - CONTINUE ON	N ANOTHER PAGE IF NEEDED)					
Concurrence of CDRH, Office of Device Evaluation (ODE)							
	(Division Sign, Off)	in Bants for					
	Division of Clinical La 510(k) Number	boratory Devices					
Prescription Use (Per 21 CFR 801.109)	OR	Over-The-Counter-Use (Optional Format 1-2-96)					